

10/5/1 (Item 1 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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014659303 \*\*Image available\*\*  
 WPI Acc No: 2002-480007/200251  
 XRPX Acc No: N02-379059

Removable fixing device for neuro implants, especially retina implants,  
 has fixing head that allows implant to be removed from beneath it  
 Patent Assignee: TD VERW GMBH (TDTD-N); INTELLIGENT IMPLANTS GMBH (INTE-N)  
 Inventor: ECKMILLER R

Number of Countries: 089 Number of Patents: 003  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200243631	A2	20020606	WO 2001EP14077	A	20011203	200251 B
DE 10060029	A1	20020613	DE 1060029	A	20001201	200251
AU 200219150	A	20020611	AU 200219150	A	20011203	200264

Priority Applications (No Type Date): DE 1060029 A 20001201

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200243631	A2	G	13	A61F-009/00	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN  
 CU CZ DK EE ES FI GB GD GE GH GM HU ID IL IN IS JP KE KG KP KR KZ LC LK  
 LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL  
 TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
 IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZUG ZM ZW

DE 10060029	A1	A61F-002/14
AU 200219150	A	A61F-009/00 Based on patent WO 200243631

Abstract (Basic): WO 200243631 A2

NOVELTY - The head of the fixing device (3) extends over the  
 implant (2) on the opposite side to the retina. The fixing device can  
 be removed during the re-explanation or fixing process by pulling the  
 microcontact foil beneath the head.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for (a)  
 a fixing device with a head which extends over the implant surface and  
 which can be pivoted, folded or pulled out in order to release the  
 implant, and (b) a fixing device with a head which can be releasably  
 secured in place by an anchor structure extending through the retina,  
 pigment epithel and vein wall.

USE - None given.

ADVANTAGE - **Neuro** implants can be releasably fixed to retina  
 tissue, enabling a defective implant to be replaced, or a more up to  
 date implant to be inserted in place of the old one.

DESCRIPTION OF DRAWING(S) - Figure 1 shows a section of tissue from  
 the retina with a microcontact film lying epiretinally on top of it,  
 held in place by pivotable fixing devices.

Retina tissue section (1)  
 Microcontact film (2)  
 Fixing device (3)  
 Pivot arm (4)  
 Release position of pivot arm (5)  
 Movement of pivot arm into release position (6)  
 pp; 13 DwgNo 1/3

Title Terms: REMOVE; FIX; DEVICE; **NEURO** ; IMPLANT; RETINA; IMPLANT; FIX;  
 HEAD; ALLOW; IMPLANT; REMOVE; BENEATH

Derwent Class: P32

International Patent Class (Main): A61F-002/14; A61F-009/00

File Segment: EngPI

10/5/2 (Item 2 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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014172377 \*\*Image available\*\*

WPI Acc No: 2001-656605/200175

XRPX Acc No: N01-489484

**Micro-contact structure for neuro -prostheses for implantation on nerve tissue has multiple contacts on two dimensional carrier panel which can be folded**

Patent Assignee: INTELLIGENT IMPLANTS GMBH (INTE-N); BECKER M (BECK-I); ECKMILLER R (ECKM-I); HUNERMANN R (HUNE-I)

Inventor: **BECKER M ; ECKMILLER R ; HUENERMANN R ; HUNERMANN R**

Number of Countries: 029 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010037061	A1	20011101	US 2001771283	A	20010126	200175 B
DE 10020846	A1	20011206	DE 1020846	A	20000428	200203
WO 200183025	A1	20011108	WO 2000EP12713	A	20001214	200212
AU 200131589	A	20011112	AU 200131589	A	20001214	200222

Priority Applications (No Type Date): DE 1020846 A 20000428

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20010037061	A1		8 A61B-005/04	
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DE 10020846	A1		A61F-002/02	
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WO 200183025	A1 G		A61N-001/05	
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Designated States (National): AU BR CA IL JP KR MX NZ SG US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE TR

AU 200131589	A		A61N-001/05	Based on patent WO 200183025
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Abstract (Basic): US 20010037061 A1

NOVELTY - The micro-contact structure for **neuro** -prostheses has multiple contacts formed on a two dimensional carrier which has at least two regions which can move relative to one another. The regions can assume a base position and an operating position. The size of the micro-contact structure is collapsed during surgical transportation to the implant point by moving the relatively movable sections.

USE - For implantation at mammalian muscle tissue, or blood vessels or body organs

ADVANTAGE - Allows ease of positioning implant

DESCRIPTION OF DRAWING(S) - Drawing shows plan view of implant pp; 8 DwgNo 1/4

Title Terms: MICRO; CONTACT; STRUCTURE; **NEURO** ; PROSTHESIS; IMPLANT; NERVE ; TISSUE; MULTIPLE; CONTACT; TWO; DIMENSION; CARRY; PANEL; CAN; FOLD

Derwent Class: P31; P34

International Patent Class (Main): A61B-005/04; A61F-002/02; A61N-001/05

International Patent Class (Additional): A61F-002/14

File Segment: EngPI

10/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014141156 \*\*Image available\*\*

WPI Acc No: 2001-625367/200172

XRPX Acc No: N01-466125

**Secure operating method for neuro -prosthesis in central nervous system within skull, by performing data transmission when authorisation signal transmitted from external to internal components is checked and accepted**

Patent Assignee: INTELLIGENT IMPLANTS GMBH (INTE-N)

Inventor: **BECKER M ; ECKMILLER R ; HUENERMANN R ; ORTMANN V**

Number of Countries: 029 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200147598	A1	20010705	WO 2000EP6666	A	20000713	200172 B
DE 19962915	A1	20010906	DE 1062915	A	19991223	200172
AU 200068231	A	20010709	AU 200068231	A	20000713	200172

Priority Applications (No Type Date): DE 1062915 A 19991223

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
WO 200147598 A1 G 42 A61N-001/36  
Designated States (National): AU BR CA CN IL JP KR MX NZ SG US  
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE  
DE 19962915 A1 A61F-002/00  
AU 200068231 A A61N-001/36 Based on patent WO 200147598

Abstract (Basic): WO 200147598 A1

NOVELTY - At least one **neuro** -prosthesis component is implanted so that it is in contact with a nerve tissue or is associated with a nerve tissue in such a way that they interact. The **neuro** -prosthesis is only operated during the period of specific authorisation, and/or the system comprises an authorised data transmission between external components and implanted components, and/or an authorised communication for monitoring and/or fixing the **neuro** -prosthesis operating status, and/or the communication between the external and implanted components is encrypted.

USE - None given.

ADVANTAGE - Prevents unauthorised access to data.

DESCRIPTION OF DRAWING(S) - The drawing shows a protection system for a **neuro** -prosthesis.  
pp; 42 DwgNo 1/5

Title Terms: SECURE; OPERATE; METHOD; **NEURO** ; PROSTHESIS; CENTRAL; NERVE; SYSTEM; SCULL; PERFORMANCE; DATA; TRANSMISSION; AUTHORISE; SIGNAL; TRANSMIT; EXTERNAL; INTERNAL; COMPONENT; CHECK; ACCEPT

Derwent Class: P32; P34; S05; T01; W02

International Patent Class (Main): A61F-002/00; A61N-001/36

International Patent Class (Additional): A61N-001/372

File Segment: EPI; EngPI

10/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012126555 \*\*Image available\*\*

WPI Acc No: 1998-543467/199847

XRPX Acc No: N98-423049

**Apparatus for promoting selective stimulation of defective retina - employs portable laser and video prosthetic in form of conventional spectacles which cause laser beam to stimulate relevant neuron groups**

Patent Assignee: BECKER M (BECK-I)

Inventor: **BECKER M**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19713612	A1	19981015	DE 1013612	A	19970402	199847 B

Priority Applications (No Type Date): DE 1013612 A 19970402

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
DE 19713612 A1 8 A61F-009/08

Abstract (Basic): DE 19713612 A

An apparatus for selectively stimulating one or a number of nerve cells in the defective retina of a human eye employs a portable laser source whose beam is projected onto the retina via the natural lens of the eye.

The laser unit and system controller can be conveniently carried in a small container at the waist with connections made by coaxial and fibre-optics cables to a prosthetic assembly in the form of conventional spectacles.

These incorporate a photosensor array for detecting the wearer's forward environment, a fixed focusing mirror and a beam steering reflector responding to signals from a pupil position sensor which combine to regulate stimulation of the appropriate retinal **neurons** .

USE - Provides retinal stimulation in situations where disease has

impaired efficient functioning.

ADVANTAGE - Is able to be more precise in terms of effect on individual cells or small groups of cells than current systems employing electrical stimulation via electrodes. Does not require expense and risks of invasive surgery which attends implantation of micro-photodiodes.

Dwg.2/4

Title Terms: APPARATUS; PROMOTE; SELECT; STIMULATING; DEFECT; RETINA; EMPLOY; PORTABLE; LASER; VIDEO; PROSTHESIS; FORM; CONVENTION; SPECTACLE; CAUSE; LASER; BEAM; STIMULATING; RELEVANT; **NEURON** ; GROUP

Derwent Class: P32; P34; S05

International Patent Class (Main): A61F-009/08

International Patent Class (Additional): A61N-005/06

File Segment: EPI; EngPI

10/5/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012040911 \*\*Image available\*\*

WPI Acc No: 1998-457821/199840

XRPX Acc No: N98-357358

**Encoder for visual neuroprosthetic providing active vision. - uses adjustable receptive field characteristic filters inserted in signal path between photosensor array and implanted stimulation and registration interface**

Patent Assignee: INTELLIGENT IMPLANTS GMBH (INTE-N); TD VERW GMBH (TDTD-N); ECKMILLER R (ECKM-I)

Inventor: **ECKMILLER R**

Number of Countries: 075 Number of Patents: 023

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 19707046	A1	19980827	DE 1007046	A	19970221	199840	B
WO 9836793	A2	19980827	WO 98EP971	A	19980220	199840	
WO 9836795	A1	19980827	WO 98EP968	A	19980220	199840	
WO 9837691	A1	19980827	WO 98EP970	A	19980220	199840	
AU 9864990	A	19980909	AU 9864990	A	19980220	199905	
AU 9867223	A	19980909	AU 9867223	A	19980220	199905	
AU 9868220	A	19980909	AU 9868220	A	19980220	199905	
EP 969896	A2	20000112	EP 98913568	A	19980220	200008	
			WO 98EP971	A	19980220		
DE 19880174	T	20000105	DE 1080174	A	19980220	200009	
			WO 98EP970	A	19980220		
EP 971770	A1	20000119	EP 98912345	A	19980220	200009	
			WO 98EP968	A	19980220		
BR 9807260	A	20000502	BR 987260	A	19980220	200033	
			WO 98EP971	A	19980220		
BR 9807847	A	20000829	BR 987847	A	19980220	200046	
			WO 98EP968	A	19980220		
MX 9907727	A1	20000401	MX 997727	A	19990820	200124	
MX 9907732	A1	20000401	MX 997732	A	19990820	200124	
AU 732190	B	20010412	AU 9867223	A	19980220	200128	
KR 2000075557	A	20001215	WO 98EP968	A	19980220	200131	
			KR 99707617	A	19990821		
KR 2000075560	A	20001215	WO 98EP971	A	19980220	200131	
			KR 99707620	A	19990821		
JP 2001511687	W	20010814	JP 98536262	A	19980220	200154	
			WO 98EP971	A	19980220		
JP 2001523989	W	20011127	JP 98536259	A	19980220	200204	
			WO 98EP968	A	19980220		
US 6400989	B1	20020604	WO 98EP968	A	19980220	200242	
			US 2000367030	A	20000530		
AU 747686	B	20020516	AU 9868220	A	19980220	200244	
NZ 337392	A	20020628	NZ 337392	A	19980220	200252	
			WO 98EP971	A	19980220		
NZ 337366	A	20020628	NZ 337366	A	19980220	200252	
			WO 98EP968	A	19980220		

Priority Applications (No Type Date): DE 1007046 A 19970221

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 19707046	A1		17	A61F-002/02	
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WO 9836793	A2	G		A61N-001/00	
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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GM GW HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TT UA US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

WO 9836795	A1	G		A61N-001/36	
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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GM GW HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TT UA US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

WO 9837691	A1	G		H04N-005/232	
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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GM GW HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TT UA US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9864990	A			H04N-005/232	Based on patent WO 9837691
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AU 9867223	A			A61N-001/36	Based on patent WO 9836795
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AU 9868220	A			A61N-001/00	Based on patent WO 9836793
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EP 969896	A2	G		A61N-001/00	Based on patent WO 9836793
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE SI

DE 19880174	T			H04N-005/232	Based on patent WO 9837691
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EP 971770	A1	G		A61N-001/36	Based on patent WO 9836795
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE SI

BR 9807260	A			A61N-001/00	Based on patent WO 9836793
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BR 9807847	A			A61F-002/02	Based on patent WO 9836795
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MX 9907727	A1			A61N-001/00	
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MX 9907732	A1			A61N-001/36	
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AU 732190	B			A61N-001/36	Previous Publ. patent AU 9867223
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Based on patent WO 9836795

KR 2000075557	A			A61N-001/36	Based on patent WO 9836795
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KR 2000075560	A			A61N-001/00	Based on patent WO 9836793
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JP 2001511687	W		25	A61N-001/36	Based on patent WO 9836793
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JP 2001523989	W		34	A61F-009/08	Based on patent WO 9836795
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US 6400989	B1			A61N-001/18	Based on patent WO 9836795
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AU 747686	B			A61N-001/00	Previous Publ. patent AU 9868220
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Based on patent WO 9836793

NZ 337392	A			A61N-001/36	Based on patent WO 9836793
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NZ 337366	A			G06F-017/00	Based on patent WO 9836795
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Abstract (Basic): DE 19707046 A

The encoder has the signals provided by a photosensor array fed to a stimulation and registration interface, provided by an implanted microcontact structure, via adjustable receptive field characteristic filters. The latter receive signals provided by the stimulation and registration interface, for providing an active vision function. The photosensor array may be incorporated in a spectacles frame, with image tracking movement controlled via head and eye movement detectors.

USE - For **neuroprosthetic** retina implant for blind patient, for night vision etc.

ADVANTAGE - Autonomous object detection and following.

Dwg.1/3

Title Terms: ENCODE; VISUAL; ACTIVE; VISION; ADJUST; RECEPTIVE; FIELD; CHARACTERISTIC; FILTER; INSERT; SIGNAL; PATH; PHOTSENSOR; ARRAY; IMPLANT ; STIMULATING; REGISTER; INTERFACE

Derwent Class: P32; P34; S05; T01; W03; W04

International Patent Class (Main): A61F-002/02; A61F-009/08; A61N-001/00;

A61N-001/18; A61N-001/36; G06F-017/00; H04N-005/232

International Patent Class (Additional): A61F-002/14; A61F-002/18;

A61F-002/48; A61F-011/04; G05B-015/02; G06F-015/18; G06F-019/00;  
H04N-005/14  
File Segment: EPI; EngPI

10/5/6 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00954399 \*\*Image available\*\*

**METHOD FOR WEAVING AN AIRBAG**  
**PROCEDE DE TISSAGE D'UN SAC GONFLABLE**  
**VERFAHREN ZUM WEBEN EINES LUFTSACKS**

Patent Applicant/Assignee:

BERGER SEIBA-TECHNOTEX VERWALTUNGS GMBH & CO, Ballyweg 5, 79713 Bad  
Sackingen, DE, DE (Residence), DE (Nationality), (For all designated  
states except: US)

Patent Applicant/Inventor:

ESCHBACH Thomas, Rheinpromenade 10, 79790 Rheinheim, DE, DE (Residence),  
DE (Nationality), (Designated only for: US)

BECKER Michael, Adelsberg 11, 79669 Zell im Wiesental, DE, DE  
(Residence), DE (Nationality), (Designated only for: US)

Legal Representative:

FISCHER Matthias (et al) (agent), Wolfratshauser Strasse 145, 81479  
Munchen, DE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200288443 A1 20021107 (WO 0288443)

Application: WO 2002EP3629 20020402 (PCT/WO EP0203629)

Priority Application: DE 10115890 20010330

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU

SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: D03D-001/02

International Patent Class: B60R-021/16

Publication Language: German

Filing Language: German

English Abstract

Disclosed is a method for weaving a single-pieced airbag (2) or air tube  
consisting of at least two layers on a mechanical loom, characterized in  
that weft yarns of different strengths are woven in at least one layer.

French Abstract

L'invention concerne un procede de tissage d'un sac gonflable (2) ou  
d'une chambre a air bicouche d'une seule piece sur un metier a tissier,  
ledit procede etant caracterise en ce que, dans une couche au moins, des  
fils de trame de grosseurs differentes sont tisses.

German Abstract

Es wird Verfahren zum Weben eines wenigstens zweilagigen, einstueckigen  
Luftsacks (2) oder Luftschlauchs auf einer Webmaschine vorgeschlagen, das  
durch gekennzeichnet ist, dass in wenigstens einer Lage Schussfaden  
unterschiedlicher Starken verwebt werden.

Legal Status (Type, Date, Text)

Publication 20021107 A1 With international search report.

Publication 20021107 A1 Before the expiration of the time limit for  
amending the claims and to be republished in the  
event of the receipt of amendments.

Set	Items	Description
S1	16	AU='ECKMILLER R':AU='ECKMILLER ROLF PROF DR'
S2	5	AU='HUNERMANN R':AU='HUNERMANN RALPH'
S3	286	AU='BECKER M'
S4	85	AU='BECKER MICHAEL':AU='BECKER MICHAEL J'
S5	46	AU='BECKER MICHAEL J 925 N STERLING':AU='BECKER MICHAEL WI-

LLIAM'

S6	427	S1 OR S2 OR S3 OR S4 OR S5
S7	11	S6 AND (NEURO? OR NEURAL)
S8	12	S6 AND (NEURO? OR NEURAL?)
S9	12	IDPAT (sorted in duplicate/non-duplicate order)
<del>S10</del>	<del>6</del>	<del>IDPAT (primary/non-duplicate records only)</del>

?show files

File 347:JAPIO Oct 1976-2002/Jul(Updated 021104)

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File 348:EUROPEAN PATENTS 1978-2002/Nov W02

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File 349:PCT FULLTEXT 1979-2002/UB=20021114,UT=20021107

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File 350:Derwent WPIX 1963-2002/UD,UM &UP=200273

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File 371:French Patents 1961-2002/BOPI 200209

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